ABSTRACT OF THE DISCLOSURE

ACTUATOR ARM DESIGN FOR REDUCING POWER CONSUMPTION IN A DISK DRIVE DATA STORAGE DEVICE

A hard disk drive utilizes an actuator arm design that significantly reduces air flow drag within the drive. The leading and trailing edges of the arm are shaped to reduce their coefficient of air flow drag in order to reduce the running current and seeking current of the disk drive during operation. As a result, the disk drive consumes less power and, thus, produces less heat which must be dissipated. The spindle motor design is reconfigured at a lower torque constant, thereby lowering the overall cost of the device.